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Two sample batches made up by these specifications gave the following hygienic laboratory phenol coefficient, when tested by the official method without organic matter:

Hygienic Laboratory phenol coefficient.

B. TYPHOSUS 20°.

Dilution.	Time of exposure, minutes.						Phenol coefficient.
	2.5	5	7.5	10	12.5	15	
Phenol:							
80.....	—	—	—	—	—	—	
90.....	+	—	—	—	—	—	
100.....	+	+	+	—	—	—	
110.....	+	+	+	+	+	+	
120.....	+	+	+	+	+	+	
Pine-oil disinfectant:							
375.....	—	—	—	—	—	—	$\left. \begin{array}{l} 400 + 450 \\ 80 + 100 \\ \hline 2 \end{array} \right\} = 4.75$
400.....	—	—	—	—	—	—	
450.....	+	+	+	—	—	—	
500.....	+	+	+	+	+	+	
550.....	+	+	+	+	+	+	
Pine-oil disinfectant:							
350.....	—	—	—	—	—	—	$\left. \begin{array}{l} 350 + 450 \\ 80 + 100 \\ \hline 2 \end{array} \right\} = 4.44$
375.....	+	—	—	—	—	—	
400.....	+	—	—	—	—	—	
450.....	+	+	+	+	+	—	
500.....	+	+	+	+	+	+	
550.....	+	+	+	+	+	+	

Designation.—It is suggested that this preparation be referred to in specifications and elsewhere as the “Hygienic Laboratory pine-oil disinfectant.”

PLAGUE-PREVENTION WORK.
CALIFORNIA.

The following reports of plague-prevention work in California were received from Senior Surg. Pierce, of the United States Public Health Service, in charge of the work:

WEEK ENDED SEPT. 4, 1915.

SAN FRANCISCO, CAL.		SAN FRANCISCO, CAL.—Continued.	
RAT PROOFING.		RAT PROOFING—continued.	
New buildings:		Old buildings:	
Inspections of work under construction..	85	Inspections made.....	248
Basements concreted (8,575 square feet)	20	Wooden floors removed.....	23
Floors concreted (10,207 square feet)....	4	Yards and passageways, planking removed.....	13
Yards, passageways, etc., (4,383 square feet).....	14	Cubic feet new foundation walls installed	2,370
Total area of concrete laid (square feet). 23,165		Concrete floors installed (24,022 square feet).....	15
Class A, B, and C (fire proof) buildings:		Basements concreted (45,190 square feet). ..	19
Inspections made.....	195	Yards and passageways, etc., concreted (6,219 square feet).....	15
Roof and basement ventilators, etc., screened.....	4,115	Total area concrete laid (square feet)....	75,431
Wire screening used (square feet).....	22,600	Floors rat proofed with wire cloth (8,500 square feet).....	8
Openings around pipes, etc., closed with cement.....	2,761	Buildings razed.....	8
Sidewalk lens lights replaced.....	1,100		

SAN FRANCISCO, CAL.—Continued.

RAT PROOFING—continued.

New garbage cans stamped approved.....	740
Nuisances abated.....	238

OPERATIONS ON THE WATER FRONT.

Vessels inspected for rat guards.....	32
Reinspections made on vessels.....	28
New rat guards procured.....	12
Defective rat guards repaired.....	8
Rats trapped on wharves and water front...	36
Rats trapped on vessels.....	30
Traps set on wharves and water front.....	175
Traps set on vessels.....	78
Vessels trapped on.....	14
Poisons placed on water front (pieces).....	3,600
Poisons placed within Panama Pacific International Exposition grounds (pieces).....	7,200

SAN FRANCISCO, CAL.—Continued.

OPERATIONS ON THE WATER FRONT—continued.

Bait used on water front and vessels, bacon (pounds).....	6
Amount of bread used in poisoning water front (loaves).....	12
Pounds of poison used on water front.....	6

RATS COLLECTED AND EXAMINED FOR PLAGUE.

Collected.....	386
Examined.....	196
Found infected.....	0

RATS IDENTIFIED.

Mus norvegicus.....	160
Mus alexandrinus.....	86
Mus musculus.....	57
Mus rattus.....	83

Squirrels collected and examined for plague.

Counties.	Shot.	Examined.	Found infected.
Contra Costa.....	650	246	5
San Benito.....	165	50
Monterey.....	127	85
Alameda.....	9	4
Stanislaus.....	6	6
Total.....	957	391	5

OTHER ANIMALS COLLECTED AND EXAMINED FOR PLAGUE.

Contra Costa County.....	1 rat.
Found infected.....	None.

RANCHES INSPECTED AND HUNTED OVER.

Contra Costa County.....	40
San Benito County.....	23
Monterey County.....	10
Alameda County.....	2
Stanislaus County.....	1
Total.....	76

PLAGUE-INFECTED SQUIRRELS.

Contra Costa County:

Shot Aug. 12, 1915. J. Domingo Ranch, 7 miles southwest of Lafayette, sec. 14, T. 1 S., R. 3 W.....	1
Shot Aug. 16, 1915. Root Ranch, 1 mile northwest of Lafayette.....	1
Shot Aug. 17, 1915. J. Mulholland Ranch (Moraga Co.), 2½ miles south of Lafayette.	1
Shot Aug. 17, 1915. M. Durata Ranch, 3 miles north of Concord.....	1
Shot Aug. 23, 1915. Adams Ranch (Peoples Water Co.), 3 miles southeast of San Pablo.....	1

The work is being carried on in the following named counties: Alameda, Contra Costa, San Francisco, Stanislaus, San Benito, and Monterey.

WEEK ENDED SEPTEMBER 11, 1915.

SAN FRANCISCO, CAL.

RAT PROOFING.

New buildings:	
Inspections of work under construction.....	64
Basements concreted (53,855 square feet).....	41
Floors concreted (6,650 square feet).....	3
Yards, passageways, etc. (8,369 square feet).....	37
Total area of concrete laid (square feet).....	68,874
Class A, B, and C (fireproof) buildings:	
Inspections made.....	127
Roof and basement ventilators, etc., screened.....	3,810

SAN FRANCISCO, CAL.—Continued.

RAT PROOFING—continued.

Class A, B, and C (fireproof) buildings—contd.	
Wire screening used (square feet).....	18,970
Openings around pipes, etc., closed with cement.....	2,903
Sidewalk lens lights replaced.....	1,000
Old buildings:	
Inspections made.....	311
Wooden floors removed.....	24
Yards and passageways, planking removed.....	5

SAN FRANCISCO, CAL.—Continued.

RAT PROOFING—continued.

Old buildings—Continued.

Cubic feet new foundation walls installed.....	885
Concrete floors installed (4,900 square feet).....	4
Basements concreted (12,400 square feet).....	13
Yards and passageways, etc., concreted (4,220 square feet).....	19
Total area concrete laid (square feet)....	21,520
Buildings razed.....	9

SAN FRANCISCO, CAL.—Continued.

RAT PROOFING—continued.

New garbage cans stamped approved.....	287
Nuisances abated.....	170

OPERATIONS ON THE WATER FRONT.

Vessels inspected for rat guards.....	19
Reinspections made on vessels.....	20
New rat guards procured.....	11
Defective rat guards repaired.....	6
Vessels on which cargo was inspected.....	1

Amount and description of cargo.	Condition.	Rat evidence.
Steamer Admiral Dewey from Seattle:		
132 cases milk, lard, and household goods.....	O. K.....	None.
360 sacks flour, meal, and bran.....	O. K.....	None.
20 tubs lard.....	O. K.....	None.

Rats trapped on wharves and water front.....	28
Rats trapped on vessels.....	24
Traps set on wharves and water front.....	179
Traps set on vessels.....	74
Vessels trapped on.....	12
Bait used on water front and vessels, bacon (pounds).....	5

RATS COLLECTED AND EXAMINED FOR PLAGUE.

Collected.....	270
Examined.....	237
Found infected.....	0

RATS IDENTIFIED.

Mus norvegicus.....	117
Mus alexandrinus.....	62
Mus musculus.....	45
Mus rattus.....	46

Squirrels collected and examined for plague.

Counties.	Shot.	Examined.	Found infected.
Contra Costa.....	407	148	None.
San Benito.....	111	43	Do.
Monterey.....	44	28	Do.
Alameda.....	33	16	Do.
Total.....	595	235	

Ranches inspected and hunted over.

Contra Costa County.....	35
San Benito County.....	13
Monterey County.....	7
Alameda County.....	3
Total.....	58

Record of plague infection.

Places in California.	Date of last case of human plague.	Date of last case of rat plague.	Date of last case of squirrel plague.	Total number rodents found infected since May, 1907.
Cities:				
San Francisco.....	Jan. 30, 1908	Oct. 23, 1908	(1)	398 rats.
Oakland.....	Aug. 9, 1911	Dec. 1, 1908	(1)	120 rats.
Berkeley.....	Aug. 28, 1907	(1)	(1)	None.
Los Angeles.....	Aug. 11, 1908	(1)	Aug. 21, 1908	1 squirrel.
Counties:				
Alameda (exclusive of Oakland and Berkeley).....	Sept. 24, 1909	Oct. 17, 1909 ²	July 12, 1915	287 squirrels; 1 wood rat.
Contra Costa.....	July 13, 1915	(1)	Aug. 23, 1915	1,588 squirrels.
Fresno.....	(1)	(1)	Oct. 27, 1911	1 squirrel.
Merced.....	(1)	(1)	July 12, 1911	5 squirrels.
Monterey.....	(1)	(1)	Apr. 10, 1914	6 squirrels.
San Benito.....	June 4, 1913	(1)	Aug. 14, 1915	50 squirrels.
San Joaquin.....	Sept. 18, 1911	(1)	Aug. 26, 1911	18 squirrels.
San Luis Obispo.....	(1)	(1)	Jan. 29, 1910	1 squirrel.
Santa Clara.....	Aug. 31, 1910	(1)	July 23, 1913	25 squirrels.
Santa Cruz.....	(1)	(1)	May 17, 1910	3 squirrels.
Stanislaus.....	(1)	(1)	June 2, 1911	13 squirrels.

¹ None.² Wood rat.

The work is being carried on in the following named counties: Alameda, Contra Costa, San Francisco, Stanislaus, San Benito, and Monterey.

WASHINGTON—SEATTLE—PLAGUE ERADICATION.

The following reports of plague-eradication work at Seattle were received from Surg. Lloyd, of the United States Public Health Service in charge of the work:

WEEK ENDED SEPT. 11, 1915.

RAT PROOFING.		LABORATORY AND RODENT OPERATIONS—contd.	
New buildings inspected.....	19	Rodents examined for plague infection.....	160
New buildings reinspected.....	37	Rodents proven plague infected.....	0
Basements concreted, new buildings (16,960 square feet).....	16	Poison distributed (pounds).....	24
Floors concreted, new buildings (25,785 square feet).....	18	Bodies examined for plague infection.....	4
Yards, etc., concreted, new structures (2,475 square feet).....	7	Bodies found plague infected.....	0
Sidewalks concreted (square feet).....	9,285	CLASSIFICATION OF RODENTS.	
Total concrete laid, new structures (square feet).....	54,505	Mus rattus.....	19
New buildings elevated.....	7	Mus alexandrinus.....	47
New premises rat proofed, concrete.....	34	Mus norvegicus.....	114
Old buildings inspected.....	5	Mus musculus.....	57
Premises otherwise rat proofed, old buildings.....	5	WATER FRONT.	
Openings screened, old buildings.....	17	Vessels inspected and histories recorded.....	15
Rat holes cemented, old buildings.....	24	Vessels fumigated.....	0
Wooden floors removed, old buildings.....	5	New rat guards installed.....	18
Wire screening used (square feet).....	650	Defective rat guards repaired.....	12
Buildings razed.....	3	Port sanitary statements issued.....	58
LABORATORY AND RODENT OPERATIONS.		The usual day and night patrol was maintained to enforce rat guarding and fending.	
Dead rodents received.....	17	MISCELLANEOUS WORK.	
Rodents trapped and killed.....	220	Rat-proofing notices sent to contractors, new buildings.....	19
Total.....	237	Letters sent in re rat complaints.....	5

RODENTS EXAMINED IN EVERETT.

Mus norvegicus trapped.....	43
Mus norvegicus found dead.....	1
Mus musculus trapped.....	2

Total.....46

Rodents examined for plague infection.....	41
Rodents proven plague infected.....	0

RAT-PROOFING OPERATIONS IN EVERETT.

New buildings inspected.....	14
New buildings, concrete foundations.....	6

RAT-PROOFING OPERATIONS IN EVERETT—con.

New buildings elevated 18 inches.....	8
New buildings, basements concreted (1,620 square feet).....	3
New buildings, floors concreted (480 square feet).....	1
New buildings, yards concreted (528 square feet).....	4
Total concrete laid, new buildings (2,628 square feet).	

WEEK ENDED SEPT. 18, 1915.

RAT PROOFING.

New buildings inspected.....	28
New buildings reinspected.....	42
Basements concreted, new buildings (13,530 square feet).....	15
Floors concreted, new buildings (45,650 square feet).....	18
Yards, etc., concreted, new structures (3,750 square feet).....	7
Sidewalks concreted (4,950 square feet).	
Total concrete laid, new structures (67,880 square feet).	
New buildings elevated.....	4
New premises rat proofed, concrete.....	33
Old buildings inspected.....	3
Premises rat proofed, concrete, old buildings.....	1
Floors concreted, old buildings.....	1
Premises otherwise rat proofed, old buildings.....	2
Wooden floors removed, old buildings.....	1
Wire screening used (575 square feet).	
Buildings razed.....	2

LABORATORY AND RODENT OPERATIONS.

Dead rodents received.....	28
Rodents trapped and killed.....	216
Total.....	244
Rodents examined for plague infection.....	172
Rodents proven plague infected.....	0
Poison distributed, pounds.....	22
Bodies examined for plague infection.....	1
Bodies found plague infected.....	0

CLASSIFICATION OF RODENTS.

Mus rattus.....	28
Mus alexandrinus.....	70
Mus norvegicus.....	107
Mus musculus.....	39

WATER FRONT.

Vessels inspected and histories recorded....	12
Vessels fumigated.....	0
New rat guards installed.....	8
Defective rat guards repaired.....	17
Port sanitary statements issued.....	63

The usual day and night patrol was maintained to enforce rat guarding and fending.

MISCELLANEOUS WORK.

Rat-proofing notices sent to contractors, new buildings.....	17
Letters sent in re rat complaints.....	5

RODENTS EXAMINED IN EVERETT.

Mus norvegicus trapped.....	46
Mus norvegicus found dead.....	1
Mus musculus trapped.....	4
Total.....	51
Rodents examined for plague infection.....	48
Rodents proven plague infected.....	0

RAT-PROOFING OPERATIONS IN EVERETT.

New buildings inspected.....	4
New buildings, concrete foundations.....	2
New buildings elevated 18 inches.....	2

HAWAII—HONOLULU—PLAGUE PREVENTION.

The following reports of plague-prevention work at Honolulu were received from Surg. Trotter, of the United States Public Health Service:

WEEK ENDED SEPT. 4, 1915.

Total rats and mongoose taken.....	345	Classification of rats trapped—Continued.	
Rats trapped.....	310	Mus norvegicus.....	59
Mongoose trapped.....	7	Mus rattus.....	19
Rats shot from trees.....	28	Classification of rats shot from trees:	
Examined microscopically.....	295	Mus alexandrinus.....	26
Showing plague infection.....	0	Mus rattus.....	2
Classification of rats trapped:		Average number of traps set daily.....	984
Mus alexandrinus.....	136	Cost per rat destroyed.....cents..	22½
Mus musculus.....	96		

WEEK ENDED SEPT. 11, 1915.

Total rats and mongoose taken.....	292	Classification of rats shot from trees:	
Rats trapped.....	252	Mus alexandrinus.....	35
Mongoose trapped.....	3	Mus rattus.....	2
Rats shot from trees.....	37	Average number of traps set daily.....	984
Examined microscopically.....	265	Cost per rat destroyed.....cents..	26½
Showing plague infection.....	0	Last case rat plague, Aiea, 9 miles from Honolulu,	
Classification of rats trapped:		Apr. 12, 1910.	
Mus alexandrinus.....	126	Last case human plague, Honolulu, July 12, 1910.	
Mus musculus.....	74	Last case rat plague, Kalopa stable, Paauhau,	
Mus norvegicus.....	43	Hawaii, Aug. 29, 1914.	
Mus rattus.....	9	Last case human plague, Paauhau Landing,	
		Hawaii, Aug. 16, 1914.	

PORTO RICO—PLAGUE PREVENTION.

The following table shows the number of rats, mice, and mongoose examined in Porto Rico for plague infection during the three weeks ended September 10, 1915. No plague infection was found:

Place.	Rats.	Mice.	Mon- goose.
San Juan.....	359	26
Puerta de Tierra.....	176	28	1
Santurce.....	335	23